

N. YOSHITANI

Application No. 10/649,955

Response to Office Action dated July 6, 2007

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A telephone control system comprising:
a plurality of telephone sets which are connected to a plurality of lines, ~~and in communication with each of which a line is selected from among the plurality of lines,~~
~~each of the telephone sets including:~~
~~a status setting device means capable of setting the telephone set into any of an on-call a talking status, a call talk holding status and an on-hook a waiting status, and capable of releasing any set status;~~
~~a status discriminator discrimination means for discriminating status of the plurality of lines to be one of which of the on-call talking status, the call talk holding status and the on-hook waiting status the telephone set is in;~~
~~an incoming-call detector detection means for detecting an incoming call signal from any one of the plurality of lines;~~
~~a notification device means for providing a notification of notifying an incoming call by one or both of tone information and and/or visible information in response to a detection output from the incoming-call detector detection means; and~~
~~a controller control means for controlling operations of the status setting device means, the status discriminator discrimination means, the incoming-call detector detection means and the notification device means,~~
wherein in a state ~~in which where~~ the incoming-call ~~detector detection means~~ has detected a new incoming-call signal from ~~a first any other~~ line,
~~when it has been discriminated by the status discriminator discriminates the call holding status for a second discrimination means that one line is in the talk holding status, the controller~~

~~control means~~ controls the notification device means so that the an incoming call is notified by, at least, tone information, and

~~when it has been discriminated by the status discriminator discriminates the on-call status for the second discrimination means that one line is in the talking status, the controller control means~~ controls the notification device means so that the an incoming call is notified by, at least, visible information.

Claim 2 (Currently Amended): The telephone control system of claim 1, wherein the telephone set further includes:

a tone-information input/output unit capable of inputting/outputting tone information; and a handset capable of generating and outputting tone information, and

in a state in which where the incoming-call detector detection means has detected the [[a]] new incoming-call signal from the first any other line,

~~when it has been discriminated by the status discriminator discriminates the call holding status for the second discrimination means that one line is in the talk holding status, the controller control means~~ controls the notification device means so that the tone-information input/output unit outputs the tone information, whereby notification is provided for the and an incoming call is notified; and

~~when it has been discriminated by the status discriminator discriminates the on-call status for the second discrimination means that one line is in the talking status, the controller control means~~ controls the notification device means so that the handset outputs the tone information, whereby notification is provided for the and an incoming call is notified.

Claim 3 (Currently Amended): The telephone control system of claim 2, wherein the plurality of telephone sets includes include a master telephone set and a slave telephone set,

the master telephone set includes slave-telephone-set calling-up circuitry means capable of calling up the slave telephone set or releasing the calling-up of the slave telephone set, and

in a state in which where a signal for calling up the slave telephone set from the master telephone set is being issued by the slave-telephone-set calling-up circuitry means,

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when the slave telephone set has is in the on-call talking status, the controller control means included in the slave telephone set controls the status setting device means so as to set the slave telephone set in the call talk holding status for a predetermined time period, and controls the notification device means so that the tone-information input/output unit generates and outputs a ringing tone to provide notification of notify the calling-up.

Claim 4 (Currently Amended): The telephone control system of claim 2, wherein the plurality of telephone sets include a master telephone set and a plurality of slave telephone sets,

the slave telephone set includes slave-telephone-set calling-up circuitry means capable of calling-up another slave telephone set or releasing the calling-up of the other slave telephone set, and

in a state in which where a signal for calling up the other slave telephone set from one slave telephone set is being issued by the slave-telephone-set calling-up circuitry means,

when the other slave telephone set has is in the on-call talking status, the controller control means included in the other slave telephone set controls the notification device means so that a the calling-up notification is provided notified by the visible information, and

when the other slave telephone set has is in the call talk holding status, the controller control means included in the other slave telephone set controls the notification device means so that the calling-up notification is provided notified by the visible information and the tone information.

Claim 5 (Currently Amended): The telephone control system of claim 3, wherein in a state in which where a signal for releasing the calling-up of the slave telephone set is being issued by the slave-telephone-set calling-up circuitry means, when the slave telephone set has is in the call talk holding status, the controller control means included in the to-be released slave telephone set the calling up of which is to be released, controls the notification device means so that the output of the ringing tone is stopped, and controls the status setting device means so that the setting of the call talk holding status is released and the on-call talking status is set.

Claim 6 (Currently Amended): The telephone control system of claim 4, wherein in a state in which ~~where~~ a signal for releasing the calling-up of the slave telephone set is being issued by the slave-telephone-set calling-up circuitry means, when the slave telephone set has is ~~is~~ in the call talk holding status, the controller control means included in the to-be released slave telephone set ~~the calling up of which is to be released~~, controls the notification device means so that the output of the ringing tone is stopped, and controls the status setting device means so that the setting of the call talk holding status is released and the on-call talking status is set.

Claim 7 (Currently Amended): The telephone control system of claim 3, wherein the tone information includes a hold tone indicating the call talk holding status, an incoming call tone for providing notification of notifying the incoming call, and a ringing tone for calling up the slave telephone set, and

the hold tone, the incoming call tone and the ringing tone are formed of tone qualities, tone levels and tone signals which are respectively different from one another.

Claim 8 (Currently Amended): The telephone control system of claim 4, wherein the tone information includes a hold tone indicating the call talk holding status, an incoming call tone for providing notification of notifying the incoming call, and a ringing tone for calling up the slave telephone set, and

the hold tone, the incoming call tone and the ringing tone are formed of tone qualities, tone levels and tone signals which are respectively different from one another.

Claim 9 (Original): The telephone control system of claim 3, wherein the master telephone set is connected to the plurality of lines, and the slave telephone set is a cordless telephone set which communicates with the master telephone set by radio.

Claim 10 (Original): The telephone control system of claim 4, wherein the master telephone set is connected to the plurality of lines, and the slave telephone set is a cordless telephone set which communicates with the master telephone set by radio.

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Claim 11 (Currently Amended): The telephone control system of claim 1, wherein the plurality of lines includes include an analog communication line and a digital communication line.

Claim 12 (New): A telephone control system comprising:
a plurality of telephone sets connected to multiple communication lines, each telephone set including a status setting device for setting and releasing telephone set status, a status discriminator, an incoming-call detector, a notification device for providing incoming call notification, and a controller,

wherein if the incoming-call detector detects an incoming call signal on a second one of the communication lines and the status discriminator discriminates a call holding status for a first one of the communication lines, the controller controls the notification device to provide at least an aural incoming call notification, and

wherein if the incoming-call detector detects the incoming call signal on the second one of the communication lines and the status discriminator discriminates an on-call status for the first one of the communication lines, the controller controls the notification device to provide at least a visual incoming call notification.

Claim 13 (New): The telephone control system of claim 12, wherein
each telephone set further includes a tone-information input/output unit and a handset,
and

if the incoming-call detector detects the incoming-call signal on the second one of the communication lines and the status discriminator discriminates the call holding status for the first one of the communication lines, the controller controls the notification device so that the tone-information input/output unit outputs tone information as the aural incoming call notification,
and

if the incoming-call detector detects the incoming-call signal on the second one of the communication lines and the status discriminator discriminates the on call status for the first one of the communication lines, the controller controls the notification device so that the handset outputs tone information as the aural incoming call notification.

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Claim 14 (New): The telephone control system of claim 13, wherein the plurality of telephone sets includes a master telephone set and a slave telephone set, the master telephone set including slave-telephone-set calling-up circuitry, and if the slave-telephone-set calling-up circuitry issues a calling-up signal for calling up the slave telephone set and the slave telephone set has the on-call status, the controller of the slave telephone set controls the status setting device thereof to set the call holding status for the slave telephone set for a time period, and controls the notification device thereof so that the tone-information input/output unit thereof generates and outputs a ringing tone to provide calling-up notification.

Claim 15 (New): The telephone control system of claim 14, wherein if a release signal for releasing the calling-up of the slave telephone set is issued by the slave-telephone-set calling-up circuitry and the slave telephone set has the call holding status, the controller included in the to-be released slave telephone set controls the notification device thereof so that output of the ringing tone is stopped, and controls the status setting device thereof so that the call holding status is released and the on-call status is set.

Claim 16 (New): The telephone control system of claim 13, wherein the plurality of telephone sets includes a master telephone set and a plurality of slave telephone sets, each slave telephone set including slave-telephone-set calling-up circuitry, if a calling up signal for a second slave telephone set is issued by the slave-telephone-set calling-up circuitry of a first slave telephone set and the second slave telephone set has the on-call status, the controller of the second slave telephone set controls the notification device thereof to provide a visual calling-up notification, and if a calling up signal for the second slave telephone set is issued by the slave-telephone-set calling-up circuitry of the first slave telephone set when the second slave telephone set has the call holding status, the controller of the second slave telephone set controls the notification device thereof to provide an aural and visual calling-up notification.

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Claim 17 (New): A telephone system comprising:

a master telephone set connected to a plurality of communication lines, the master telephone set comprising an incoming-call detector, an incoming call notification device, and a controller; and

a slave telephone set wirelessly connected to the master telephone set,

wherein if the master telephone set is engaged in a call over a first one of the communication lines and the incoming call detector detects an incoming call to the master telephone set on a second one of the communication lines, the notification device of the master telephone set provides at least a visual incoming call notification, and

wherein if a call in which the master telephone set is engaged on the first one of the communication lines is on hold and the incoming call detector detects an incoming call to the master telephone set on the second one of the communication lines, the notification device of the master telephone set provides at least an aural incoming notification.

Claim 18 (New): The telephone system according to claim 17, wherein if the master telephone set is engaged in a call over the first one of the communication lines and the incoming call detector detects an incoming call to the master telephone set on a second one of the communication lines, the master telephone set generates a page signal for the slave telephone set and an incoming call notification device of the slave telephone set is responsive thereto for providing at least an aural incoming call notification.

Claim 19 (New): The telephone system according to claim 17, if a call in which the master telephone set is engaged over the first one of the communication lines is on-hold and the incoming call detector detects an incoming call to the master telephone set on a second one of the communication lines, the master telephone set generates a page signal for the slave telephone set and the incoming call notification device of the slave telephone set is responsive thereto for providing at least an aural incoming call notification.